



PATENT APPLICATION Docket No: 14254.21.3

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of		)
	Graham Nicholson et al.	)
Serial No.:	10/618,833	) Art Unit ) 2881
Filing Date:	July 14, 2003	)
Confirmation No.:	5930	)
For:	CONTAINER FOR NUCLEAR FUEL TRANSPORTATION	)

#### CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that the following documents are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, PO Box 1450, Arlington, Virginia 22313-1450, on the 30<sup>th</sup> day of October 2003.

- Transmittal for Information Disclosure Statement (3 pages)
- Information Disclosure Statement (2 pages)
- Form PTO-1449 listing 93 references (& pages)
- copy of previously filed Forms PTO-1449 and PTO-892
- Postcard

Respectfully submitted,

DANA L. TANGREN Attorney for Applicant Registration No. 37,246

WORKMAN NYDEGGER 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, Utah 84111 Telephone: (801) 533-9800 Facsimile: (801) 328-1707

#### PATENT APPLICATION Docket No: 14254.21.3

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For:	CONTAINER FOR NUCLEAR FUEL TRANSPORTATION	)

#### TRANSMITTAL FOR INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing and pursuant to 37 C.F.R. § 1.97 is an Information Disclosure Statement, which includes the following statements, if any, required variously by 37 C.F.R. § 1.98:

<u>X</u>	Statement	of	relevance	of	selected	cited	references	not	in	the	English	language
	which are	not	translated.									

 Statement th	at selected	cited	references	are	substantially	cumulative	of an	enclosed
or previously	submitted /	refere	ence.					

fee set forth in 37 C.F.R. § 1.17(p).

Promptness Certificate;

III.

enclosed:

in the amount of \$\_\_\_ constituting the submission

After the mailing of a Notice of Allowance, but before payment of the Issue Fee. Accordingly, in order to secure consideration thereof, each of the following are also

The submission fee set forth in 37 C.F.R. § 1.17(p).

The petition fee set forth in 37 C.F.R. § 1.17(i)(1).

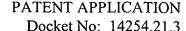
Dated this 30<sup>th</sup> day of October 2003.

Respectfully submitted,

DANA L. TANGREN Attorney for Applicant Registration No. 37,246

022913

PATENT TRADEMARK OFFICE CUSTOMER NUMBER





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In re application of		)
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## INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner for Patents PO Box 1450 Arlington, Virginia 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed listed references are disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

# Statement of Relevance of References Listed Unaccompanied by English Translation Under 37 CFR § 1.98(a)(3)

In accordance with 37 CFR § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

PCT Publication No. WO 80/02469 discloses a process for transporting and storing radioactive materials, particularly fuel elements of reactors. The radio active materials are sealingly enclosed in a container (7) resisting to chemical attacks. This container is then placed on a mechanical carrier (17), protected against thermal and radiation effects. The container is forwarded to a storage station, removed from the carrier and introduced into a concrete silo (12). Thereby, the intermediary storage of fuel elements into of fuel elements into expensive transport containers is avoided.

<u>PCT Publication No. WO 94/01871</u> discloses a container for the transport and terminal storage of nuclear-fuel rods, the container having at least one shielding surround made of cat bronze, preferably CuPbl5Sn, designed to enclose the fuel roads and at least one additional shielding surround made of shaped sintered-magnesite bricks.

Dated this 30<sup>th</sup> day of October 2003.

Respectfully submitted,

Dana L. Tangren Attorney for Applicant Registration No. 37,246

WORKMAN, NYDEGGER 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, Utah 84111 Telephone: (801) 533-9800

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Applicant:

Graham Nicholson et al.

Serial No .: Filing Date:

10/618,833 July 14, 2003

For:

CONTAINER FOR NUCLEAR FUEL FROM ORTATION

Sheet 1 of 6 NOV 0 3 2003 Confirmation No.: 5930 Att'y Docket No.: 14254.21.3 Group: 2881

## INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

#### U.S. Patent Documents

Examiner	Document	Issue	
<u>Initial*</u>	<u>Number</u>	<u>Date</u>	Name
1	RE 31,661	09/04/1984	Mullon
2	2,514,909	07/11/1950	Strickland
3	3,038,999	06/12/1962	Loos et al.
4	3,046,403	07/24/1962	Montgomary
5	3,111,586	11/19/1963	Rogers
6	3,119,933	01/28/1964	Allen
7	3,175,087	03/23/1965	Aupetit et al.
8	3,229,096	01/11/1966	Bonilla et al.
9	3,466,445	09/09/1969	Schlies
10	3,505,525	04/07/1970	Sandore
11	3,787,699	01/22/1974	Menachem et al.
12	3,832,563	08/27/1974	Dubovsky et al.
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14	3,882,313	05/06/1975	Siemens et al.
15	3,886,368	05/27/1975	Rollins et al.
16	3,935,467	01/27/1976	Gablin
17	4,021,676	05/13/1977	Duffy
Examiner:		Date Considered:	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 Sheet 2 of 6 Applicant: Graham Nicholson et al. Confirmation No.: 5930 Serial No.: Att'y Docket No.: 14254.21.3 10/618,833 Filing Date: July 14, 2003 Group: 2881 For: CONTAINER FOR NUCLEAR FUEL TR ATION 18 4,219,735 08/26/1980 Blum \_\_\_\_ 19 4,274,922 06/1981 Rouse et al. \_\_\_20 4,288,699 09/08/1981 van der Vlis et al. \_\_\_\_21 4,356,062 10/26/1982 Bosshard \_\_\_\_22 4,357,541 11/02/1982 Ernst \_\_\_\_23 4,388,268 06/1983 Knackstedt et al. \_\_\_\_ 24 4,399,366 08/16/1983 Bucholz 25 4,414,475 11/08/1983 Kratz et al. \_\_\_\_ 26 03/13/1984 Zezza et al. 4,436,693 \_\_\_\_27 Doroszlai et al. 4,447,729 05/08/1984 28 4,476,384 10/09/1984 Westphal \_\_\_\_\_29 4,513,205 04/23/1985 Splinter 30 4,535,250 08/1985 **Fields** \_\_\_\_ 31 4,543,488 09/24/1985 Diem 32 4,588,088 05/13/1986 Allen 33 4,619,808 10/28/1986 Formanek \_\_\_\_ 34 4,626,402 12/02/1986 Baatz et al. 35 4,636,351 01/13/1987 Rohr \_\_\_\_36 4,649,017 03/10/1987 Couture 37

Examiner: Date Considered:

03/10/1987

Waltersdorf et al.

4,649,018

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 Sheet 3 of 6 NOV 0 3 2003 Applicant: Graham Nicholson et al. Confirmation No.: 5930 Att'y Docket No.: 14254.21.3 Serial No.: 10/618,833 Filing Date: July 14, 2003 Group: 2881 CONTAINER FOR NUCLEAR FUEL TRANSPORTATION For: 38 4,666,659 05/19/1987 Lusk et al. \_\_\_\_\_ 39 4,680,159 07/14/1987 Lahr et al. 40 4,698,510 10/06/1987 Handke et al. \_\_\_\_ 41 4,711,758 12/08/1987 Machado et al. 42 4,713,199 12/15/1987 Spilker et al. 43 4,752,437 06/21/1988 Ito et al. \_\_\_44 4,770,844 10/18/1988 Davis, Jr. 45 4,778,628 10/18/1988 Saha et al. \_\_\_\_ 46 4,780,269 10/25/1988 Fischer et al. 47 4,781,883 11/01/1988 Daugherty et al. 48 4,783,309 11/08/1988 Popp et al. \_\_\_\_ 49 11/15/1988 4,784,802 Mallary et al. \_\_\_\_\_50 4,815,624 03/28/1989 Houghton \_\_\_\_\_ 51 4,827,139 05/02/1989 Wells 52 4,834,916 05/30/1989 Chaudon et al. 53 4,834,917 05/30/1989 Ramm et al. 54 4,836,975 06/06/1989 Guldner et al. \_\_\_\_55 4,844,840 07/04/1989 Feizollahi 56 4,845,372 07/04/1989 Mallory et al. 57 4,863,638 09/05/1989 Harper, III

Examiner:

Date Considered:

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Form PTO-1449 Sheet 4 of 6 HOY 0 3 2003 Graham Nicholson et al. Applicant: Confirmation No.: 5930 Att'y Docket No.: 14254.21.3 Serial No.: 10/618,833 Filing Date: July 14, 2003 Group: 2881 CONTAINER FOR NUCLEAR FUEL For: **ANSPORTATION** 58 4,866,286 09/12/1989 Baatz et al. \_\_\_\_ 59 4,877,969 10/31/1989 James et al. 60 4,896,046 01/23/1990 Efferding \_\_\_\_61 4,908,515 03/13/1990 McLeod \_\_\_\_ 62 4,914,306 05/02/1989 Wells et al. 63 4,930,650 06/05/1990 Wells \_\_\_\_ 64 4,972,087 Neider et al. 11/20/1990 65 4,996,019 02/26/1991 Catalayoud et al. 66 5,035,342 07/30/1991 Houghton 67 5,063,299 11/05/1991 Efferding 68 5,098,645 03/24/1992 Fosberg \_\_\_\_\_69 5,114,666 05/19/1992 Ellingson et al. 70 5,125,532 06/30/1992 Casagrande 71 5,171,483 12/15/1992 Tollison, Jr. 72 5,373,540 12/13/1994 DeCooman, Sr. et al. 73 5,395,007 03/07/1995 Householder et al. \_\_\_\_ 74 5,406,601 04/11/1995 Hinderer et al. \_\_\_\_75 5,438,597 08/01/1995 Lehnert et al. \_\_\_\_ 76 5,595,319 01/21/1997 Householder et al. \_\_\_\_77 5,612,543 03/1997 Wenner et al.

Examiner: Date Considered:

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant:

Graham Nicholson et al.

Serial No.: Filing Date:

Examiner:

10/618,833

July 14, 2003

For:

CONTAINER FOR NUCLEAR FUEL TRANSPORTATION

Sheet 5 of 6
Confirmation No.: 5930
Att'y Docket No.: 14254.21.3
Group: 2881

#### Foreign Patent Documents

Examiner <u>Initial</u> *	Document Number	Publication	Country or Patent Office	Translation
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#### Other Documents

(including author, title, pertinent pages, etc.)

Examiner <u>Initial</u> *	
88	Abstract of Japanese Patent Application No. 07 120 589 filed May 12, 1995.
89	Abstract of Japanese Patent Application No. 02 002 995 filed January 8, 1990.
90	BUJ Packaging Design, by British Nuclear Fuels PLC, Published 1990.

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date Considered:

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Form PTO-14 Applicant: Serial No.: Filing Date: For:	Graham Nicholson et al. NOV 1 3 2003 U Confirmation No.: 5930 10/618,833 Att'y Docket No.: 14254.21.3 July 14, 2003 Group: 2881 CONTAINER FOR NUCLEAR FORMULEAR FORMUL
91	E. E. Lewallen, "Celotex" – Insulated Shipping Containers, PATRAM, August 16-20, 1971, pp. 130-144.
92	A. B. Thomas et al., Design of a New Air-Transportable Plutonium Container, PATRAM, June 11-16, 1989, pp. 1245-1253.
93	A. J. Mallett et al., New End-Loading Shipping Container for Unirradiated Fuel Assemblies, PATRAM, October 14-18, 1968, pp. 426-437.
	References Cited by Applicants
Section 609 of Information Di other item of i readily availab	the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper isclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or information and a translation of the pertinent portions of foreign documents (if an existing translation is le to the applicant), an explanation of relevance of each reference not in the English language, and should a timely manner as set out in MPEP Sec. 609.
place their init conformance w any reason who if it is not in co	ners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and ials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in with the guidelines which may have been considered. A reference may be considered by the Examiner for either or not the citation is in full conformance with the guidelines. A line will be drawn through a citation conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed er, will be returned to the applicant with the next communication. The original of the form will be entered atton file.
	itation initialed by the Examiner will be printed on the issued patent in the same manner as references cited er on Form PTO-892.
	ference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) y the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office TO-1142.
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Examiner: Date Considered:

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Filing Date:

Graham Nicholson, et al.

10/022,993

December 18, 2001

For: CONTAIN

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Sheet 1 of 2

Confirmation No.: 4126 Att'y Docket No.: 14254.21.2

Group: 2881

CONTAINER FOR NUCLEAR FUEL TRANSPORTATION

	INFORMATION	ON DISCLOSURE CITATIONS MADE	BY APPLICANT
		U.S. Patent Documents	RECEIVED HAR -4 2002 2800 MAIL REOM
Examiner	Document	Issue	AL Z
Initial*	Number	<u>Date</u>	Næme R
1 62 2 6 3 6 4 6 5	4,274,922	06/1981	Rouse et al.
pr 2	4,388,268	06/1983	Knackstedt et al.
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<u> </u>	5,438,597	08/1995	Lehne∉ et al.
for 5	5,612,543	03/1997	Wenner et al. R
		Foreign Patent Documents	RECEIVED Wenner et 27 2007 Wenner MAIL ROOM Country or
Examiner <u>Initial</u> *	Document Number	Publication Date	Country or Ratent Office
1A 6	62 249 100	10/30/87	Japan
147	902 639	12/12/85	BE
		Other Documents (including author, title, pertinent pages, etc.)	
Examiner <u>Initial</u> *			
AA 8	Abstract of Japanese	Patent Application No. 07 120 589 filed	i May 12, 1995.

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Abstract of Japanese Patent Application No. 02 002 995 filed January 8, 1990.

					Docket Number (Optiona 14254.	Application Number					
Ø	ONFORMATION DISCLOSURE CITATION (Several sheets if necessary)				Applicant(s)		10/022,993				
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3.		2 233 595 A	1/16/1991	Great B							
6.		2 203 377 A	10/19/1998	Great B	ritain —————						
7.		2 132 814 A	12/7/1981	Great B	ritain ——————————						
8.		2 091 477 A	12//7/1981	Great Bi	ritain						
9.		WO 80/02469	11/13/1980	PCT		7			1		
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Form PTO-A820 (also form PTO-1449)

						Docket Number (Optional) 14254.21		Application Number		
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Form PTO-A820 (also f rm PTO-1449)

Applicant:

Graham Nicholson et al.

Serial No.: Filing Date:

10/022,993

December 18, 2001

For:

CONTAINER FOR NUCLEAR FUE AFRANSPORTATION

Sheet 1 of 5 Confirmation No.: 4126 Att'y Docket No.: 14254.21.2

Group: 2881

#### SUPPLEMENTAL INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

NOV 0 3 2003

#### U.S. Patent Documents

Examiner <u>Initial*</u>	Document Number	Issue Date	Name
#1 1	RE 31,661	09/04/1984	Mullon
AA 2	2,514,909	07/11/1950	Strickland
MA 3	3,038,999	06/12/1962	Loos et al.
#A 4	3,046,403	07/24/1962	Montgomary
M 5	3,111,586	11/19/1963	Rogers
<u>/A</u> 6	3,119,933	01/28/1964	Allen
MA 7	3,175,087	03/23/1965	Aupetit et al.
<u>_47</u> 8	3,229,096	01/11/1966	Bonilla et al.
<u> 12</u> 9	3,466,445	09/09/1969	Schlies
/h/3 10	3,505,525	04/07/1970	Sandore
<u>17</u> 11	3,787,699	01/22/1974	Menachem et al.
<u>//A</u> 12	3,832,563	08/27/1974	Dubovsky et al.
<b>B</b> A 13	3,845,315	10/29/1974	Blum
<u>/4</u> 14	3,882,313	05/06/1975	Siemens et al.
<u>fa</u> 15	3,886,368	05/27/1975	Rollins et al.
<u>_/21/</u> 16	3,935,467	01/27/1976	Gablin

Examiner: Bruce Anderson Date Considered: 3-3-03

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Filing Date:

Graham Nicholson et al.

10/022,993

December 18, 2001

For:

CONTAINER FOR NUCLEAR FOR RANSPORTATION



Sheet 2 of 5 Confirmation No.: 4126

Att'y Docket No.: 14254.21.2

Group: 2881

101.	CONTAINER FOR	NOCLEAR FOEL TRANSFORT	TION
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Date Considered: Examiner: 3-3-03

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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December 18, 2001

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CONTAINER FOR NUCLEAR FUEL **ANSPORTATION** 

rot.	CONTAINER	FOR NUCLEAR FOLD TRANSFORTATION	
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Examiner:	
Bruce	Anderson

Date Considered:

3-3-03

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PTO-1449 Sheet 4 of 5 NOV 0 3 2003 pplicant: Graham Nicholson et al. Confirmation No.: 4126 Serial No.: 10/022,993 Att'y Docket No.: 14254.21.2 Filing Date: December 18, 2001 Group: 2881 For: CONTAINER FOR NUCLEAR RANSPORTATION 4,908,515 03/13/1990 McLeod 4,972,087 11/20/1990 Neider et al. **S** 59 4,996,019 02/26/1991 Catalayoud et al. 1A 60 5,035,342 07/30/1991 Houghton *PA* 61 5,063,299 11/05/1991 Efferding **PA** 62 5,098,645 03/24/1992 Fosberg BB 63 5,114,666 05/19/1992 Ellingson et al. PA 64 5,125,532 06/30/1992 Casagrande 5,171,483 12/15/1992 Tollison, Jr. 5,373,540 12/13/1994 DeCooman, Sr. et al. 5,406,601 04/11/1995 Hinderer et al. 5,438,597 08/01/1995 Lehnert et al. Foreign Patent Documents Examiner Document **Publication** Country or Initial\* Number Date Patent Office Translation MA 69 WO 94/01871 01/20/1994 **PCT** No Other Documents (including author, title, pertinent pages, etc.)

Examiner Initial\*

Examiner: Date Considered: 3-3-03

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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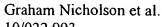
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## SUPPLEMENTAL INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

		U.S. Patent Documents		
Examiner <u>Initial*</u>	Document Number	Issue <u>Date</u>	Name	
		Foreign Patent Documents		
Examiner <u>Initial</u> *	Document Number	Publication	Country or Patent Office	Translation
		Other Documents (including author, title, pertinent pages,	etc.)	
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The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Wells

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#### Examiner Document Issue Initial\* Number Date <u>Name</u> 4,588,088 05/13/1986 Allen

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Other Documents (including author, title, pertinent pages, etc.)

Examiner Initial\*

Examiner:	Date Considered:

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